

# INTERNATIONAL SEARCH REPORT

Inten	Application No
	PCT/US2004/038339

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C12N15/12 C12N5/10 C07K14/705 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/35274 A (THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE; REED, RANDALL, R; KRA) 22 June 2000 (2000-06-22) abstract example 1 claims 24,29-33,35	16-20
X	WO 03/000735 A (DECODE GENETICS EHF; MARTINEZ, ROGER, A., MORAGA; SIGURDSSON, GUNNAR,) 3 January 2003 (2003-01-03) page 5, line 4 - line 11 page 9, line 9 - line 14 page 20, line 12 - line 15 page 42, line 12 - page 43, line 26	16-20 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

23 August 2005

Date of mailing of the International search report

08/09/2005

Name and mailing address of the ISA

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Internat'l Application No  
PCT/US2004/038339

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HATT H ET AL: "CLONING, FUNCTIONAL EXPRESSION AND CHARACTERIZATION OF A HUMAN OLFACTORY RECEPTOR" CELLULAR AND MOLECULAR BIOLOGY, CMB ASSOCIATIONS, NOISY-LE-GRAND, FR, vol. 45, no. 3, 1999, pages 285-291, XP000891909 ISSN: 0145-5680 the whole document	16-20
A	BREER H ET AL: "EXPRESSION AND FUNCTIONAL ANALYSIS OF OLFACTORY RECEPTORS" ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, NEW YORK ACADEMY OF SCIENCES, NEW YORK, NY, US, vol. 855, 7 July 1997 (1997-07-07), pages 175-181, XP009006842 ISSN: 0077-8923 the whole document	1-28
A	KATADA SAYAKO ET AL: "Odorant response assays for a heterologously expressed olfactory receptor." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 13 JUN 2003, vol. 305, no. 4, 13 June 2003 (2003-06-13), pages 964-969, XP002341567 ISSN: 0006-291X the whole document	1-28
A	KIEFER H ET AL: "Expression of an olfactory receptor in <i>Escherichia coli</i> : purification, reconstitution and ligand binding" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 35, no. 50, 1996, pages 16077-16084, XP002130409 ISSN: 0006-2960 the whole document	1-28
A	IVIC LIDIJA ET AL: "Intracellular trafficking of a tagged and functional mammalian olfactory receptor." JOURNAL OF NEUROBIOLOGY. JAN 2002, vol. 50, no. 1, January 2002 (2002-01), pages 56-68, XP002341568 ISSN: 0022-3034 cited in the application the whole document	1-28

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**INTERNATIONAL SEARCH REPORT**Intern:  Application No  
PCT/US2004/038339**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TOUHARA K ET AL: "Functional identification and reconstitution of an odorant receptor in single olfactory neurons" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 96, no. 7, 1999, pages 4040-4045, XP002973354 ISSN: 0027-8424 cited in the application the whole document -----	1-28

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Interr Application No  
PCT/US2004/038339

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 0035274	A 22-06-2000	AU 2196200 A	WO 0035274 A1	US 2003175744 A1	03-07-2000 22-06-2000 18-09-2003 01-05-2003 10-12-2002
		US 2003082615 A1	US 6492143 B1	WO 03000893 A2	03-01-2003
				WO 03000735 A2	03-01-2003